

XXXIX.—*Descriptions of some new Species of Heterocera from Central America.* By HERBERT DRUCE, F.L.S.

Fam. Sphingidæ.

CALLIOMMA, Walk.

Calliomma Zurcheri, sp. n.

Primaries fawn-colour, shaded with olive-green along the costal margin and outer half of the wing; an olive-green band crosses the wing near the base from the costal to the inner margin, and a second band beyond the cell; a row of lunular-shaped olive-green markings extends across the wing from the middle of the inner margin to the apex; the anal angle is slightly irrorated with black scales; the fringe greenish fawn-colour: secondaries brownish black, crossed from near the apex to the anal angle by a wide fawn-coloured band, the outer margin bordered with olive-green, the fringe fawn-colour. Underside of both wings reddish brown, irrorated with black scales, the outer margins grey, the basal portion of the primaries brownish black. Head, collar, tegulæ, thorax, and abdomen fawn-colour shaded with olive-green; antennæ greyish brown.

Expanse 4 inches.

Hab. Costa Rica, Santa Clara Valley, 1200 feet (*F. A. Zurcher*).

A very distinct species, quite unlike any other known to me.

Fam. Agaristidæ.

EUTHISANOTIA, Hübn.

Euthisanotia argentata, sp. n.

Primaries pale fawn-colour, greyish on the outer margin; a wide silvery-white band extends from the base to the apex, crossed by a fawn-coloured line at the end of the cell; the fringe greyish brown: secondaries yellow, broadly bordered from the apex to the anal angle with reddish fawn-colour; the marginal line black, the fringe white. Head and thorax greyish fawn-colour; abdomen pale yellow; antennæ and legs grey.

Expanse 2 inches.

Hab. Mexico, Orizaba (*Mus. Druce*); Guatemala, in the city (*Rodriguez*).

A poor specimen of this species from Santa Domingo is in the National Collection, with a label in Walker's handwriting "*Copusa argentata*," but I cannot find that it has been described.

Fam. Uraniidæ.

CORONIDIA, Westw.

Coronidia Beckeri, sp. n.

Female.—Primaries dull blackish brown, crossed from the costal to the inner margin by a number of fine wavy black lines; a greyish spot on the costal margin near the apex; the fringe black; secondaries pale yellow; a wavy black line crosses the wing below the middle from the costal to the inner margin, the outer margin bordered with fine wavy blackish-brown lines. Head, antennæ, and thorax blackish brown, abdomen yellowish.

Expanse 2 inches.

Hab. Mexico, near Durango city (*Becker*).

Fam. Zygænidæ.

Subfam. EUCROMIINÆ.

COSMOSOMA, Hübn.

Cosmosoma Zurcheri, sp. n.

Male.—Similar to *Cosmosoma hector*, but with the apical black border slightly wider, the first segment of the abdomen black, and the two anal segments black, spotted with bright dark blue on each side; tibia and tarsus yellow instead of black.—*Female* the same as the male.

Expanse $1\frac{1}{2}$ inch.

Hab. Costa Rica, Santa Clara Valley, 1200 feet (*Zurcher*).

This species is closely allied to *C. hector*, from which it is at once distinguished by the black anal segments of the abdomen.

Cosmosoma pudica, sp. n.

Female.—Primaries and secondaries hyaline, the veins, apex, outer and inner margin of both wings all black, the base of the primaries clothed with pale yellow hairs. Head, antennæ, and legs black, the collar, tegulæ, thorax, and abdomen pale yellow: a small white spot on each side of the thorax; the anal segment and the anus black.

Expanse $1\frac{3}{4}$ inch.

Hab. Costa Rica, Santa Clara Valley, 1200 feet (*Zurcher*).

Fam. Arctiidæ.

CYCNIA, Hübn.

Cyenia (?) *raspa*, sp. n.

Male.—Primaries creamy white, the costal margin shaded with yellow; four black lines cross the wing from the costal to the inner margin, the first three near the base, the fourth beyond the cell, the veins beyond the fourth line black; a short black streak at the end of the cell; the fringe yellow: secondaries uniformly pale yellow. Underside of both wings pale yellow, the black lines on the primaries the same as above. The head and thorax yellow, collar and tegulæ white, abdomen yellow; antennæ white, pectination black.—*Female* similar to the male, but larger.

Expanse, ♂ $1\frac{7}{10}$, ♀ $2\frac{1}{10}$ inches.

Hab. Mexico, Teapa in Tabasco (H. H. Smith).

IDALUS, Walk.

Idalus dares, sp. n.

Primaries and secondaries semihyaline white; primaries streaked with black at the base on the costal margin beyond the cell, and four rather long black streaks edged with fawn-colour below the cell, the fourth on the inner margin rather above the first three streaks; two black spots on the outer margin nearest the apex. Head, thorax, and tegulæ yellowish white; thorax white, with four very distinct black spots near the middle; abdomen above red, the sides, underside, anus, and a row of spots down the middle white; legs white, spotted with black.

Expanse $1\frac{3}{4}$ inch.

Hab. Costa Rica, Santa Clara Valley, 1200 feet (Zurcher).

Fam. Laparidæ.

COLOCASIA, Ochs.

Colocasia rhotana, sp. n.

Male.—Primaries grey, crossed about the middle from the costal to the inner margin by a wide broken black band, beyond which are two fine waved black lines, the marginal line black; the fringe grey: secondaries dark greyish black, the fringe white. Head and thorax grey; abdomen blackish grey; legs white, banded with black; antennæ brown.—*Female* almost identical with the male.

Expanse, ♂ $1\frac{1}{2}$, ♀ $1\frac{3}{4}$ inch.

Hab. Mexico, Orizaba (*Mus. Druce*); Jalapa (*M. Trujillo*); Guatemala, in the city (*Rodriguez*); Cahabon (*Champion*).

STILPNOTIA, Westw.

Stilpnotia (?) *dara*, sp. n.

Primaries and secondaries uniformly silky mouse-colour. Head and thorax yellowish brown, the thorax thickly clothed with long yellowish hairs; abdomen brown, banded with yellow; antennæ yellowish brown.

Expanse $2\frac{1}{2}$ inches.

Hab. Mexico, Orizaba (*Mus. Druce*).

One specimen.

Fam. Drepanulidæ.

TROGOPTERA, Herr.-Schäff.

Trogoptera *sao*, sp. n.

Male.—Primaries and secondaries orange-brown, the costal margin of the primaries and a faint line crossing the wing from the costal to the inner margin pinkish brown. Antennæ, head, thorax, and abdomen yellowish brown.

Expanse $1\frac{3}{4}$ inch.

Hab. Costa Rica, Rio Susio (*Rogers*).

Trogoptera *rumina*, sp. n.

Male.—Primaries and secondaries citron-yellow; primaries with two small spots close to the base on the costal margin, one close to the apex, and a streak at the anal angle all greyish white; the anal angle is shaded with fawn-colour; secondaries crossed below the middle by an indistinct broken white line of small spots; the inner margin and anal angle slightly shaded with pinkish fawn-colour; the fringe greyish white. Head, thorax, and abdomen pale pinkish fawn-colour; antennæ pale brown.

Expanse $1\frac{3}{10}$ inch.

Hab. Panama, Volcan de Chiriqui, 2000 to 3000 feet (*Champion*).

Fam. Notodontidæ.

PHYA, Druce.

Phya *dela*, sp. n.

Male.—Primaries pale fawn-colour, the costal margin from the base almost to the apex shaded with reddish brown, with

two small black streaks close to the apex; a wide reddish fawn-coloured band extends down the middle of the wing from the base to the outer margin; the anal angle shaded with dark reddish brown; the fringe pale fawn-colour: secondaries creamy white, slightly darker along the inner margin; a small brown spot at the anal angle; the fringe cream-colour. Underside of both wings creamy white, the costal margin of the primaries shaded with dark brown. Head, antennæ, and thorax dark reddish brown, the tegulæ dark grey; abdomen fawn-colour; legs reddish brown.

Expanse 2 inches.

Hab. Mexico, Orizaba (*Mus. Druce*); Jalapa (*M. Trujillo*).

Allied to *P. laciniosa*, H. Edwards, from which it is at once distinguished by the central reddish fawn-coloured band on the primaries.

Phya salona, sp. n.

Male.—Primaries pinkish fawn-colour, shaded with brown along the inner margin from the base to the anal angle; a submarginal black waved line extends from the apex along the outer margin almost to the anal angle, and then partly crosses the wing towards the base; the outer margin pale yellowish fawn-colour, with two very fine marginal black lines: secondaries white, the costal and inner margin fawn-colour. Antennæ, head, and thorax brownish fawn-colour; abdomen fawn-colour.

Expanse 2 inches.

Hab. Mexico, Coatepec (*Brooks*).

NOTODONTA, Ochs.

Notodonta (?) *dares*, sp. n.

Male.—Primaries dark blackish brown, the veins all darker; a narrow black streak extends from the base to the end of the cell: secondaries dark brown, the fringe pale brown. Head, thorax, and abdomen dark blackish brown, the collar and front of the tegulæ black; antennæ dark brown.

Expanse 2 inches.

Hab. Mexico, Orizaba (*Mus. Druce*).

Notodonta (?) *pythia*, sp. n.

Male.—Primaries fawn-colour, with a pinkish shade over the basal half of the wing, a mark on the costal margin near the base, a streak from the base extending partly across the wing, the veins, and a rather wide line above the anal angle all reddish brown; the fringe reddish fawn-colour: secondaries

pale greyish brown, the fringe fawn-colour. Head, collar, and tegulæ fawn-colour, thorax and abdomen dark brown, antennæ brown.—*Female* very similar to the male in marking, but very much paler in colour.

Expanse, ♂ $2\frac{1}{10}$, ♀ $2\frac{1}{2}$ inches.

Hab. Mexico, Orizaba (*Mus. Druce*).

HETEROCAMPA, Doubl.

Heterocampa daona, sp. n.

Primaries greyish brown, shaded with pink at the base and partly along the costal margin; a greyish-white band crosses the wing about the middle, beyond which is an ill-defined eye-like spot: secondaries white, the inner and outer margins and fringe grey. Head, thorax, and abdomen greyish brown; antennæ brown.

Expanse 2 inches.

Hab. Mexico, Orizaba (*Mus. Druce*).

Heterocampa (?) *crossæa*, sp. n.

Male.—Primaries dark brown, palest near the anal angle, crossed from the costal to the inner margin beyond the middle by several narrow waved pale greyish-brown lines; the fringe pale brown: secondaries white, with a large dark brown square-shaped spot at the anal angle. Head and thorax brown, tegulæ pale greyish brown, abdomen greyish brown.

Expanse $1\frac{3}{4}$ inch.

Hab. Mexico, Orizaba (*Mus. Druce*).

Heterocampa sagana, sp. n.

Primaries from the base to the middle of the costal margin grey, the outer half of the wing fawn-colour, the inner margin and a large marking beyond the cell thickly irrorated with green scales; the fringe brown: secondaries uniformly pale reddish fawn-colour. Head, thorax, and tegulæ grey; abdomen fawn-colour, with a central black line from the base to the anus; antennæ dark brown.

Expanse $1\frac{1}{2}$ inch.

Hab. Mexico, Teapa in Tabasco (*H. H. Smith*).

DASYLOPHIA, Pack.

Dasylophia? *danala*, sp. n.

Male.—Primaries dark brown, crossed from the costal to the inner margin by narrow waved black lines; a reddish-

brown spot at the end of the cell and a waved pale brown submarginal line extending from the apex to the anal angle; a marginal row of small black dots, those nearest the apex are the largest; fringe dark brown: secondaries blackish brown, the base, inner margin, and fringe pale yellow. Head, palpi, antennæ, and thorax dark brown; abdomen brown above, yellowish on the underside; legs yellow.—*Female* very similar to the male, but larger and with the base of the secondaries much darker.

Expanse, ♂ $2\frac{1}{10}$, ♀ $2\frac{3}{10}$ inches.

Hab. Costa Rica, Volcan de Irazu, 6000 to 7000 feet (*Rogers*); Panama, Volcan de Chiriqui, 2000 to 3000 feet (*Champion*).

This species is allied to *D. lignicolor*, Möschler.

DRYMONIA, Hübn.

Drymonia procas, sp. n.

Male.—Primaries pale fawn-colour; a wide pinkish-white band extends down the middle of the wing from the base to the costal margin; a silvery-white curved line extending from the base almost to the anal angle; the outer margin broadly bordered with pinkish white: secondaries white. Head, antennæ, and thorax fawn-colour; abdomen greyish white.

Expanse 2 inches.

Hab. Brazil, Cabo (*Forbes*).

HARPYIA, Ochs.

Harpyia dandon, sp. n.

Male.—Primaries and secondaries white; primaries blotched with black along the costal margin, at the apex, and on the inner margin; the fringe alternately black and white. Head and collar yellow; antennæ and front of thorax black; thorax, side and underside of the abdomen, and anus white, the upperside of the abdomen black.

Expanse $1\frac{3}{4}$ inch.

Hab. Mexico, Jalapa (*M. Trujillo*).

HATIMA, Walk.

Hatimu deba, sp. n.

Primaries fawn-colour, shaded with reddish brown at the base and along the inner margin almost to the anal angle: secondaries pale brown; the fringe of both wings fawn-

colour. Head and thorax greyish brown; antennæ and legs brown; abdomen pale yellowish brown.

Expanse $1\frac{1}{2}$ inch.

Hab. Mexico, Jalapa (*M. Trujillo*).

NYSTALEA.

Nystalea sabella, sp. n.

Primaries silvery grey, clouded with yellowish brown at the base and along the inner margin; an indistinct brown line crosses the wing beyond the middle from the costal to the inner margin, beyond which are two rows of small black dots; the fringe yellowish brown: secondaries greyish brown, palest at the base. Head, antennæ, and thorax pale brown; abdomen darker brown; legs yellowish brown.

Expanse $2\frac{1}{2}$ inches.

Hab. Mexico, Orizaba (*Mus. Druce*).

Subfam. APAMIDES.

CELÆNA, Steph.

Celæna datis, sp. n.

Primaries greyish black, with a spot close to the base, two beyond the cell, and a marginal row of spots extending from the apex to the anal angle all reddish brown; the fringe alternately black and white: secondaries brownish hyaline, the veins and outer margin darker brown. Head, thorax, and abdomen dark greyish black, thickly irrorated with reddish-brown hairs.

Expanse 1 inch.

Hab. Mexico, Jalapa (*M. Trujillo*).

HYDRÆCIA, Guen.

Hydræcia pyrrha, sp. n.

Primaries dark reddish brown, irrorated with paler brown and greyish scales; a fine silvery-white streak at the end of the cell; the costal, outer, and inner margins narrowly edged with greyish white: secondaries pale brown, the veins and outer margin darker; fringe pale brown. Head, antennæ, thorax, and abdomen dark brown.

Expanse $1\frac{1}{4}$ inch.

Hab. Guatemala, near the city (*Rodriguez*).

PANAMERIA, Hübn.

Panameria rhea, sp. n.

Primaries dark brown, with a narrow submarginal grey line extending from the apex to the anal angle; the fringe dark brown: secondaries black, crossed about the middle from the costal margin almost to the inner margin with a wide orange-yellow band; the fringe yellowish brown. Head, thorax, and abdomen black.

Expanse 1 inch.

Hab. Mexico, near Durango city (*Becker*).

MAMESTRA.

Mamestra rhadata, sp. n.

Primaries very dark brown; a small spot in the cell and one at the end of the cell black; two fine waved black lines cross the wing from the costal to the inner margin, the first near the base, the second beyond the middle; a rather large reddish-brown spot close to the anal angle; the fringe dark brown: secondaries brown, whitish hyaline near the base. Head, thorax, and abdomen dark brown; antennæ and palpi brown.

Expanse 2 inches.

Hab. Mexico, Orizaba (*Mus. Druce*).

Fam. Noctuidæ.

AGROTIS.

Agrotis daunus, sp. n.

Primaries greenish stone-colour; three small black dots on the costal margin and a larger one close to the apex; a narrow dark brown line, edged with black on the inner side, crosses the wing beyond the middle from the costal to the inner margin just above the anal angle, a second narrow brown line crosses the wing nearer the base; the wing is clouded with dark brown on the inner margin; a marginal row of small black dots extends from the apex to the anal angle; the fringe alternately black and stone-colour: secondaries pearly white, the marginal line black; the inner margin and the fringe stone-colour. Head and collar brown; thorax stone-colour; abdomen brown; the anus pale brown.

Expanse $2\frac{1}{4}$ inches.

Hab. Mexico, Orizaba (*Mus. Druce*).

Very distinct, but allied to *A. semidolens*, Walker.

ANTACHARA, Butl.

Antachara (?) *superba*, sp. n.

Male.—Primaries pale pea-green, the costal margin with three small V-shaped dark brown spots, the largest about the middle; from the middle of the cell a wide reddish-brown marking extends to the outer margin and the apex; a silvery-white line partly crosses the wing about the middle; the fringe reddish brown: secondaries pearly white, the marginal line and fringe pale brown, the inner margin clothed with fawn-coloured hairs. Head, collar, and tegulæ pale pea-green; thorax, abdomen, and legs fawn-colour; antennæ and palpi dark brown.—*Female* very similar to the male, but not quite so distinctly marked.

Expanse, ♂ $2\frac{1}{10}$, ♀ $2\frac{1}{10}$ inches.

Hab. Costa Rica, Santa Clara Valley, 1200 feet (*F. A. Zucher*); Ecuador, Sarayacu (*Buckley*).

Two males from Ecuador and a female from Costa Rica are all I have seen of this very distinct species.

Subfam. ACONTINÆ.

ACONTIA, Ochs.

Acontia dela, sp. n.

Primaries bright orange-yellow, crossed from the costal to the inner margin with five narrow zigzag black lines; a pale yellow spot edged with black in the cell; the fringe alternately black and yellow: secondaries black, the fringe yellow and black. Underside of both wings blackish brown. Head and thorax dark yellow; abdomen, antennæ, and legs blackish brown.

Expanse $1\frac{1}{4}$ inch.

Hab. Mexico, near Durango city (*Becker*).

DACIRA, Walk.

Dacira roma, sp. n.

Primaries white, the base broadly black; a dentated black band crosses from the costal margin to the anal angle; the outer margin greyish: secondaries hyaline white. Head white; thorax reddish brown; abdomen greyish brown, the base white; antennæ black.

Expanse 1 inch.

Hab. Mexico, Jalapa (*M. Trujillo*); Guatemala, in the city (*Rodriguez*).

PLUSIA, Ochs.

Plusia roxana, sp. n.

Primaries pale greyish brown; a pale greyish streak extends from the base of the wing nearest the inner margin, below which is a reddish-brown spot; a greyish-white line crosses the wing from the apex to the inner margin; on the outer side of the line is a large triangular-shaped reddish-brown marking, the point of which just crosses the white line; the fringe pale brown: secondaries pale greyish brown, darkest round the outer margin; the fringe pale brown. Head, thorax, abdomen, and legs pale greyish brown; antennæ dark brown.

Expanse $1\frac{1}{2}$ inch.

Hab. Mexico, Jalapa (*M. Trujillo*).

TRISULODES, Butler.

Trisulodes pata, sp. n.

Primaries greyish brown, crossed from the costal to the inner margin by several waved black lines; a round grey spot in the cell, beyond which is a pale grey band, widest near the costal margin; a wide black streak near the anal angle; the fringe alternately black and grey: secondaries pale yellow, broadly bordered with dark blackish brown from the apex to the anal angle. Head and thorax dark grey; abdomen black.

Expanse 2 inches.

Hab. Guatemala, in the city (*Rodriguez*).

Fam. Ophiusidæ.

OPHIODES, Guen.

Ophiodes daona, sp. n.

Primaries pale yellowish fawn-colour, slightly irrorated with minute black specks; the fringe yellow: secondaries blackish grey, the fringe yellow. Head, thorax, and abdomen the same colour as the primaries; antennæ dark brown.

Expanse $2\frac{1}{4}$ inches.

Hab. Mexico, Orizaba (*Mus. Druce*).

Ophiodes raphia, sp. n.

Primaries pale greyish mouse-colour; a spot at the end of the cell and a row of small spots beyond crossing the wing

from the costal to the inner margin dark brown; three black spots close to the apex, the marginal line with black points: secondaries pale mouse-colour, almost white at the base; the fringe pale yellowish brown. Head, thorax, and abdomen greyish mouse-colour.

Expanse 2 inches.

Hab. Mexico, Orizaba (*Mus. Druce*).

HERMINODES, Guen.

Herminodes sabata, sp. n.

Primaries very pale fawn-colour; a small spot at the base, a dot in the cell, and a large comma-shaped marking at the end of the cell all reddish brown; a star-shaped brown spot near the base on the inner margin: secondaries blackish brown; the fringe of both wings pale fawn-colour. Head and thorax fawn-colour; abdomen and antennæ brown.

Expanse $2\frac{1}{4}$ inches.

Hab. Mexico, Orizaba (*Mus. Druce*).

XL.—*On Two new Chinese Rodents.*

By OLDFIELD THOMAS.

IN working out some mammal-skins recently presented to the British Museum by Mr. F. W. Styan the two following new forms prove to need description.

The first, a squirrel, is really Mr. Styan's own discovery, as he had long recognized it as distinct from the ordinary Chinese species *S. castaneiventris*, Gray, and had sent specimens of it to the Museum as long ago as 1886. Without better material I have not until now thought myself justified in describing it as new; but the specimens lately received prove the constancy of its characters so fully that I have no longer any hesitation in distinguishing it.

Sciurus Styani, sp. n.

Allied to, and in the upper view scarcely distinguishable from, *S. castaneiventris*, Gray, but with the coloured surface of the belly a peculiar reddish cream-colour ("pinkish buff" of Ridgway) instead of the rich rufous ("orange-rufous") of the older known form. This difference is extremely striking, and, as shown by the dates of the specimens before me, is not due to seasonal variation. Limbs and tail coloured as in the allied form.